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By: Nancy Ramos Printed: Nancy Ramos



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Tang et al.

Title: HUMAN MEMBRANE-SPANNING PROTEINS

Serial No.: To Be Assigned

Filing Date: To Be Assigned

Examiner: To Be Assigned

Group Art Unit: To Be Assigned

Commissioner for Patents
Box Patent Application
Washington, D.C. 20231

SUBMISSION UNDER 37 CFR § 1.821-1.825 OF SEQUENCE LISTING

Sir:

With respect to the filing of the instant **CONTINUATION** application under 37 CFR 1.53(b) of pending prior application Serial No. 09/039,307, filed on March 13, 1998, originally entitled HUMAN MEMBRANE SPANNING PROTEINS, Applicants hereby submit a paper copy of the "Sequence Listing" as disclosed in the application.

Furthermore, in accordance with the requirements of 37 CFR §§ 1.821-1.825, Applicants hereby submit one (1) diskette containing the computer-readable information for the "Sequence Listing" of the above-identified application. The diskette complies with the requirements of 37 CFR § 1.824 and is IBM PC compatible using a UNIX operating system with PERL Program.

The content of the "Sequence Listing" paper copy is identical to the computer readable copy, as required under 37 CFR § 1.821(f).

Applicants respectfully point out that the Sequence Listing being submitted with the instant continuation application differs from the Sequence Listing filed with the parent utility application, in that the instant Sequence Listing includes an additional polypeptide sequence, labeled as SEQ ID NO:8. The polynucleotide sequence encoding the polypeptide sequence of SEQ ID NO:8 is included in the instant Sequence Listing as SEQ ID NO:25. Applicants submit that the inclusion of this polypeptide sequence does not constitute new matter, as this polypeptide sequence is encoded by a polynucleotide sequence disclosed in the parent utility application (labeled therein as SEQ ID NO:24). The Examiner's attention is directed to *Ex parte Ayers and Scott*, 108 USPQ 444 (BPAI 1955), in which the Board found that:

If a statement of a so-called inherent property of a material is to be added to an application after filing, without raising the charge of new matter, it must be a property which would be obvious to those skilled in the art from the very nature of the material.

Applicants submit that the polypeptide sequence of SEQ ID NO:8 is inherent to the polynucleotide sequence now indicates as SEQ ID NO:25 (misabeled as SEQ ID NO:24 in the Sequence Listing of the parent application), and that the polypeptide sequence of SEQ ID NO:8 would be obvious to one of skill in the art, based on the polynucleotide sequence of SEQ ID NO:25 and the disclosure in the specification of the parent application. Specifically, it was disclosed in the parent application that MSP-8 is encoded by the polynucleotide of SEQ ID NO:25 (p. 29, lines 7-13); MSP-8 is 914 amino acids in length (p. 29, line 15); MSP-8 has eight potential N glycosylation sites at residues N503, N585, N770, N804, N810, N831, N836, and N890 (p. 29, lines 15-17); MSP-8 has two potential cAMP- and cGMP-dependent protein kinase phosphorylation sites at residues T211 and T286 (p. 29, lines 17-18); MSP-8 has twelve potential casein kinase II phosphorylation sites at residues T87, S245, S271, S364, S366, T411, T597, T652, T663, S795, T870, and S876 (p. 29, lines 18-19); MSP-8 has one potential glycosaminoglycan attachment site at residue S477 (p. 29, line 20); MSP-8 has thirteen potential protein kinase C phosphorylation sites at residues T68, T84, T98, T207, T232, S366, S483, T563, T580, T594, T597, T601, and S672 (p. 29, lines 20-22); and MSP-8 has eleven cysteine residues at residues C125, C187, C200, C205, C210, C223, C250, C267, C308, C386, and C421 (p. 29, lines 25-26). Based on these disclosed characteristics of MSP-8, one of skill in the art would know that MSP-8 has the polypeptide sequence of SEQ ID NO:8. Since the polypeptide

sequence of SEQ ID NO:8 was inherently disclosed in the parent application, Applicants respectfully submit that inclusion of this polypeptide sequence with the instant continuation application would not be new matter.

Furthermore, with the submission of the instant continuation application, Applicants are correcting an unintentional and obvious error in the parent application. This unintentional and obvious error was the omission of the polypeptide sequence of SEQ ID NO:8 in the parent Sequence Listing, although it was clearly referenced in the parent and instant specifications. As a result of this omission, the polypeptide and polynucleotide sequences of SEQ ID NO:9-34 were mislabeled as sequences SEQ ID NO:8-33 in the parent application. Based on the disclosures of the polypeptide sequences of SEQ ID NO:1-17 (pages 23 through 36), encoded by the polynucleotide sequences of SEQ ID NO:18-34, it would be obvious to one of skill in the art that the polypeptide sequence of SEQ ID NO:8, encoded by the polynucleotide sequence of SEQ ID NO:25 (mislabeled as SEQ ID NO:24 in the parent application), was missing from the Sequence Listing submitted with the parent application. Furthermore, it would be obvious to one of skill in the art that the polypeptide erroneously labeled as SEQ ID NO:8 in the parent application was actually MSP-9, based on the disclosure of MSP-9 in the specification of the parent application, and that this polypeptide was encoded by the polynucleotide sequence erroneously labeled as SEQ ID NO:25 in the parent application. Likewise, the correct identities of each of the sequences mislabeled as SEQ ID NO:8-33 in the parent application would be obvious to one of skill in the art. Applicants further note that the sequences of the Sequence Listing are identified by a Clone ID, and that the correct Clone IDs are disclosed in Table 1 on p. 24 of the parent application. Thus, it would be obvious to one of skill in the art that the Sequence Listing was missing the sequence of the polypeptide of Clone ID 1737775, disclosed as being MSP-8. Furthermore, one of skill in the art would find it routine to determine which of the sequences disclosed in the Sequence Listing of the parent application corresponded to each of the polypeptide and polynucleotide sequences disclosed in the specification.

The U.S. Court of Customs and Patent Appeals has found that the correction, in a subsequently filed application, of an error that is obvious to one of skill in the art, is not a bar to according the benefit of the parent patent application, *Riester v. Kendall* (CCPA 1947) 159 F2d 732, 72 USPQ 481. Therefore, Applicants submit that submission of the corrected Sequence

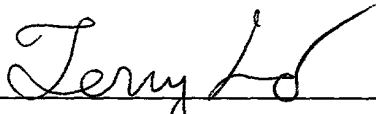
Listing in the instant continuation application does not constitute the entry of new matter, and that the instant continuation application should properly have the benefit of the parent patent application.

Thus, in accordance with the requirements of 37 CFR §§ 1.821-1.825, Applicants hereby submit the paper copy and computer-readable copy of the Sequence Listing, containing the sequences disclosed in the parent and instant applications. Any questions regarding this communication may be directed to the undersigned at (650) 845-4639 or (650) 621-8581.

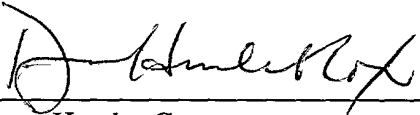
Applicants believe that no fee is due with this communication. However, if the USPTO determines that a fee is due, the Commissioner is hereby authorized to charge Deposit Account No. 09-0108. This form is enclosed in duplicate.

Respectfully submitted,
INCYTE GENOMICS, INC.

Date: March 30, 2001.


Terence P. Lo, Ph.D.
Limited Recognition (37 C.F.R. § 10.9(b)) attached
Direct Dial Telephone: (650) 621-8581

Date: 30 March 2001


Diana Hamlet-Cox
Reg. No. 33,302
Direct Dial Telephone: (650) 845-4639

3160 Porter Drive
Palo Alto, California 94304
Phone: (650) 855-0555
Fax: (650) 849-8886

PF-0489-1 CON

<110> Tang, Y. Tom
Bandman, Olga
Lal, Preeti
Hillman, Jennifer L.
Yue, Henry
Corley, Neil C.
Guegler, Karl J.
Kaser, Matthew R.
Baughn, Mariah R.
Shah, Purvi

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<150> 09/039,307

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Thr	Met	Trp	Lys	Val	Ser	Ala	Leu	Leu	Phe	Val	Leu	Gly	Ser	Ala
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Ser	Leu	Trp	Val	Leu	Ala	Glu	Gly	Ala	Ser	Thr	Gly	Gln	Pro	Glu
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Asp	Asp	Thr	Glu	Thr	Thr	Gly	Leu	Glu	Gly	Gly	Val	Ala	Met	Pro
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Gly	Ala	Glu	Asp	Asp	Val	Val	Thr	Pro	Gly	Thr	Ser	Glu	Asp	Arg
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Lys	Val	Met	Asp	Val	Arg	Leu	Asp	Arg	Glu	His	Arg	Val	Ala	Gly	
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Ser	Ser	Thr	Lys	Val	Tyr	Asp	Asp	Met	Ala	Phe	Arg	Tyr	Leu	Ser	
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80 85 90
Pro Cys Leu Asp Phe Leu Arg Cys Val Ser Ala Ile Ile Ile Phe
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Ile Ala Ala Phe Val Phe Gly Ile Ile Leu Val Ser Ile Phe Ala
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Glu Val Asn Gly Glu Asn Val Glu Lys Glu Thr His Gln Gln Val
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PF-0489-1 CON

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Leu	Gly	Met	Ile	Phe	Leu	Thr	Met	Ile	Trp	Ala	Ile	Cys	Pro	Arg

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PF-0489-1 CON

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Val Leu Gln Ser	Arg	Gln Thr Glu Lys	Ala Ser Ile Met Phe	Ala
230	235	240		
Gln His Val Asp	Ser	Ile Val Glu Phe	Cys Thr Glu Gln Asn	His
245	250	255		
Asn Lys Glu Ala	Pro	Asn Lys Gln Asn	Gln Lys Cys Asn Leu	Arg
260	265	270		
Ser Thr Trp Glu	Val	Ile Arg Asp Ser	Glu Asp Phe Lys Lys	Thr
275	280	285		
Thr Pro Met Thr	Thr	Gln Pro Pro Asn	Pro Thr Phe Ser Leu	Leu
290	295	300		
Gln Ile Gly Gln	Arg	Ile Val Cys Leu	Val Leu Asp Lys Ser	Gly
305	310	315		
Ser Met Ala Thr	Gly	Asn Arg Leu Asn	Arg Leu Asn Gln Ala	Gly
320	325	330		
Gln Leu Phe Leu	Leu	Gln Thr Val Glu	Leu Gly Ser Trp Val	Gly
335	340	345		
Met Val Thr Phe	Asp	Ser Ala Ala His	Val Gln Ser Glu Leu	Ile
350	355	360		
Gln Ile Asn Ser	Gly	Ser Asp Arg Asp	Thr Leu Ala Lys Arg	Leu
365	370	375		
Pro Ala Ala Ala	Ser	Gly Gly Thr Ser	Ile Cys Ser Gly Leu	Arg
380	385	390		
Ser Ala Phe Thr	Val	Ile Arg Lys Lys	Tyr Pro Thr Asp Gly	Ser
395	400	405		
Glu Ile Val Leu	Leu	Thr Asp Gly Glu	Asp Asn Thr Ile Ser	Gly
410	415	420		
Cys Phe Asn Glu	Val	Lys Gln Ser Gly	Ala Ile Ile His Thr	Val
425	430	435		
Ala Leu Gly Pro	Ser	Ala Ala Gln Glu	Glu Glu Leu Ser	Lys
440	445	450		
Met Thr Gly Gly	Leu	Gln Thr Tyr Ala	Ser Asp Gln Val Gln	Asn
455	460	465		
Asn Gly Leu Ile	Asp	Ala Phe Gly Ala	Leu Ser Ser Gly Asn	Gly
470	475	480		
Ala Val Ser Gln	Arg	Ser Ile Gln Leu	Glu Ser Lys Gly Leu	Thr
485	490	495		
Leu Gln Asn Ser	Gln	Trp Met Asn Gly	Thr Val Ile Val Asp	Ser
500	505	510		
Thr Val Gly Lys	Asp	Thr Leu Phe Leu	Ile Thr Trp Thr Thr	Gln
515	520	525		
Pro Pro Gln Ile	Leu	Leu Trp Asp Pro	Ser Gly Gln Lys Gln	Gly
530	535	540		
Gly Phe Val Val	Asp	Lys Asn Thr Lys	Met Ala Tyr Leu Gln	Ile
545	550	555		
Pro Gly Ile Ala	Lys	Val Gly Thr Trp	Lys Tyr Ser Leu Gln	Ala
560	565	570		
Ser Ser Gln Thr	Leu	Thr Leu Thr Val	Thr Ser Arg Ala Ser	Asn
575	580	585		
Ala Thr Leu Pro	Pro	Ile Thr Val Thr	Ser Lys Thr Asn Lys	Asp
590	595	600		
Thr Ser Lys Phe	Pro	Ser Pro Leu Val	Val Tyr Ala Asn Ile	Arg
605	610	615		
Gln Gly Ala Ser	Pro	Ile Leu Arg Ala	Ser Val Thr Ala Leu	Ile
620	625	630		
Glu Ser Val Asn	Gly	Lys Thr Val Thr	Leu Glu Leu Leu Asp	Asn
635	640	645		
Gly Ala Gly Ala	Asp	Ala Thr Lys Asp	Gly Val Tyr Ser	Arg
650	655	660		

090355-03001

Table 1. Demographic characteristics of the study population	
Age (years)	65.8 ± 1.2
Gender (male/female)	10/10
Education (years)	12.5 ± 0.5
Occupation (white/blue)	10/0
Marital status (married/divorced/widowed)	10/0/0
Health status (good/fair/poor)	10/0/0
Smoking status (smoker/nonsmoker)	10/0
Alcohol consumption (yes/no)	10/0
Comorbidities (hypertension/diabetes/cholesterol)	10/0/0
Medication (yes/no)	10/0
Family history (yes/no)	10/0
Previous surgery (yes/no)	10/0
Current symptoms (yes/no)	10/0
Quality of life (yes/no)	10/0
Overall health (yes/no)	10/0
Life expectancy (yes/no)	10/0
Healthcare utilization (yes/no)	10/0
Healthcare costs (yes/no)	10/0
Healthcare access (yes/no)	10/0
Healthcare quality (yes/no)	10/0
Healthcare safety (yes/no)	10/0
Healthcare effectiveness (yes/no)	10/0
Healthcare efficiency (yes/no)	10/0
Healthcare equity (yes/no)	10/0
Healthcare sustainability (yes/no)	10/0
Healthcare innovation (yes/no)	10/0
Healthcare leadership (yes/no)	10/0
Healthcare vision (yes/no)	10/0
Healthcare mission (yes/no)	10/0
Healthcare values (yes/no)	10/0
Healthcare culture (yes/no)	10/0
Healthcare climate (yes/no)	10/0
Healthcare environment (yes/no)	10/0
Healthcare community (yes/no)	10/0
Healthcare network (yes/no)	10/0
Healthcare system (yes/no)	10/0
Healthcare organization (yes/no)	10/0
Healthcare management (yes/no)	10/0
Healthcare strategy (yes/no)	10/0
Healthcare policy (yes/no)	10/0
Healthcare regulation (yes/no)	10/0
Healthcare legislation (yes/no)	10/0
Healthcare governance (yes/no)	10/0
Healthcare accountability (yes/no)	10/0
Healthcare transparency (yes/no)	10/0
Healthcare integrity (yes/no)	10/0
Healthcare honesty (yes/no)	10/0
Healthcare trust (yes/no)	10/0
Healthcare respect (yes/no)	10/0
Healthcare dignity (yes/no)	10/0
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Healthcare privacy (yes/no)	10/0
Healthcare confidentiality (yes/no)	10/0
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Healthcare focus (yes/no)	10/0
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Healthcare adaptability (yes/no)	10/0
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				20					25					30
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				35					40					45
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Arg	Arg	Arg	Ser	Val	Pro	Val	Leu	Arg	Leu	Ala	Arg	Pro	Thr	Glu
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Pro	Pro	Ala	Arg	Ser	Asp	Ile	Asn	Gly	Ala	Ala	Val	Arg	Pro	Glu
				95					100					105
Gln	Arg	Pro	Ala	Ala	Arg	Gly	Ser	Pro	Arg	Glu	Met	Ile	Arg	Asp
				110					115					120

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10

PF-0489-1 CON

Lys Lys Gly Gly	575	580	585
Lys Thr Glu Gln Asp	590	Gly Tyr Gln Lys Pro Thr	600
Asn Lys His Phe Thr	605	Lys Ser Val Ala Asp Leu	615
Leu Gly Ser Phe Glu	620	Leu Leu Leu Ile Thr Ala	630
Pro Lys Ala Glu Asn	635	Gln Arg Asp Glu Tyr	645
Leu Glu Ser Phe Cys	650	Lys Ile Ser Val Ile	660
Thr Ile Phe Gly Pro	665	Met Lys Ile Asp His	675
Phe Gln Leu Asp Asn	680	Arg Val Val Asp Asp Glu	690
Asp Leu Val Asp Gln	695	Leu Arg Lys Glu Tyr	705
Gly Met Thr Tyr Asn	710	Val Leu Thr Asp Val Asp	720
Leu Arg Val Lys Gln	725	Pro Ile Thr Met Lys Ser	735
Val Phe Asp Leu Ile	740	Ser Arg Ile Lys Asp Met	750
Glu Lys Gln Lys Lys	755	Cys Lys Glu Asp Lys Lys	765
Gln Ser Leu Glu Asn	770	Phe Arg Trp Arg Arg Arg	780
Leu Leu Val Ile Ser	785	Glu Asp Trp Ala Tyr Ser	795
Gln Gln Leu Ser Ala	800	Leu Cys Asn Phe Gly Leu	810
Arg His Ile Thr Ile	815	Leu Lys Leu Leu Gly Val Gly Glu Glu Val	825
Gly Gly Val Leu Glu	830	Leu Phe Pro Ile Asn Gly Ser Ser Val Val	840
Glu Arg Glu Asp Val	845	Pro Ala His Leu Val Lys Asp Ile Arg Asn	855
Tyr Phe Gln Val Ser	860	Pro Glu Tyr Phe Ser Met Leu Leu Val Gly	870
Lys Asp Gly Asn Val	875	Lys Ser Trp Tyr Pro Ser Pro Met Trp Ser	885
Met Val Ile Val Tyr	890	Asp Leu Ile Asp Ser Met Gln Leu Arg Arg	900
Gln Glu Met Ala Ile	905	Gln Gln Ser Leu Gly Met Arg Cys Pro Glu	915
Asp Glu Tyr Ala Gly	920	Tyr Gly Tyr His Ser Tyr His Gln Gly Tyr	930
Gln Asp Gly Tyr Gln	935	Asp Asp Tyr Arg His His Glu Ser Tyr His	945
His Gly Tyr Pro Tyr	950		

<210> 10
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 <213> Homo sapiens

<220>
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 <223> Incyte ID No: 2027624

Firm's ownership		Firm's size		Firm's age		Firm's location		Firm's industry		Firm's performance			
Variable	Definition	Variable	Definition	Variable	Definition	Variable	Definition	Variable	Definition	Variable	Definition		
1	1 = public	2	1 = small	3	1 = young	4	1 = urban	5	1 = manufacturing	6	1 = high	7	1 = high
2	2 = private	3	2 = medium	4	2 = old	5	2 = rural	6	2 = services	7	2 = low	8	2 = low
3	3 = government	4	3 = large	5	3 = established	6	3 = coastal	7	3 = agriculture	8	3 = medium	9	3 = medium
4	4 = foreign	5	4 = very large	6	4 = mature	7	4 = inland	8	4 = mining	9	4 = high	10	4 = high
5	5 = mixed	6	5 = very small	7	5 = new	8	5 = border	9	5 = forestry	10	5 = low	11	5 = low
6	6 = joint venture	7	6 = tiny	8	6 = startup	9	6 = international	10	6 = fishing	11	6 = high	12	6 = high
7	7 = partnership	8	7 = micro	9	7 = early stage	10	7 = global	11	7 = other	12	7 = low	13	7 = low
8	8 = sole proprietorship	9	8 = nano	10	8 = seed stage	11	8 = regional	12	8 = none	13	8 = high	14	8 = high
9	9 = limited liability company	10	9 = sub-micro	11	9 = venture stage	12	9 = national	13	9 = none	14	9 = low	15	9 = low
10	10 = corporation	11	10 = very tiny	12	10 = growth stage	13	10 = international	14	10 = none	15	10 = high	16	10 = high
11	11 = trust	12	11 = tiny	13	11 = late stage	14	11 = international	15	11 = none	16	11 = low	17	11 = low
12	12 = partnership	13	12 = very tiny	14	12 = exit stage	15	12 = international	16	12 = none	17	12 = high	18	12 = high
13	13 = sole proprietorship	14	13 = tiny	15	13 = exit stage	16	13 = international	17	13 = none	18	13 = low	19	13 = low
14	14 = limited liability company	15	14 = very tiny	16	14 = exit stage	17	14 = international	18	14 = none	19	14 = high	20	14 = high
15	15 = corporation	16	15 = tiny	17	15 = exit stage	18	15 = international	19	15 = none	20	15 = low	21	15 = low
16	16 = trust	17	16 = very tiny	18	16 = exit stage	19	16 = international	20	16 = none	21	16 = high	22	16 = high
17	17 = partnership	18	17 = tiny	19	17 = exit stage	20	17 = international	21	17 = none	22	17 = low	23	17 = low
18	18 = sole proprietorship	19	18 = very tiny	20	18 = exit stage	21	18 = international	22	18 = none	23	18 = high	24	18 = high
19	19 = limited liability company	20	19 = tiny	21	19 = exit stage	22	19 = international	23	19 = none	24	19 = low	25	19 = low
20	20 = corporation	21	20 = very tiny	22	20 = exit stage	23	20 = international	24	20 = none	25	20 = high	26	20 = high
21	21 = trust	22	21 = tiny	23	21 = exit stage	24	21 = international	25	21 = none	26	21 = low	27	21 = low
22	22 = partnership	23	22 = very tiny	24	22 = exit stage	25	22 = international	26	22 = none	27	22 = high	28	22 = high
23	23 = sole proprietorship	24	23 = tiny	25	23 = exit stage	26	23 = international	27	23 = none	28	23 = low	29	23 = low
24	24 = limited liability company	25	24 = very tiny	26	24 = exit stage	27	24 = international	28	24 = none	29	24 = high	30	24 = high
25	25 = corporation	26	25 = tiny	27	25 = exit stage	28	25 = international	29	25 = none	30	25 = low	31	25 = low
26	26 = trust	27	26 = very tiny	28	26 = exit stage	29	26 = international	30	26 = none	31	26 = high	32	26 = high
27	27 = partnership	28	27 = tiny	29	27 = exit stage	30	27 = international	31	27 = none	32	27 = low	33	27 = low
28	28 = sole proprietorship	29	28 = very tiny	30	28 = exit stage	31	28 = international	32	28 = none	33	28 = high	34	28 = high
29	29 = limited liability company	30	29 = tiny	31	29 = exit stage	32	29 = international	33	29 = none	34	29 = low	35	29 = low
30	30 = corporation	31	30 = very tiny	32	30 = exit stage	33	30 = international	34	30 = none				

Met	Ala	Ala	Ala	Met	Pro	Leu	Ala	Leu	Leu	Val	Leu	Leu	Leu	Leu
1				5					10					15
Gly	Pro	Gly	Gly	Trp	Cys	Leu	Ala	Glu	Pro	Pro	Arg	Asp	Ser	Leu
				20					25					30
Arg	Glu	Glu	Leu	Val	Ile	Thr	Pro	Leu	Pro	Ser	Gly	Asp	Val	Ala
				35					40					45
Ala	Thr	Phe	Gln	Phe	Arg	Thr	Arg	Trp	Asp	Ser	Glu	Leu	Gln	Arg
				50					55					60
Glu	Gly	Val	Ser	His	Tyr	Arg	Leu	Phe	Pro	Lys	Ala	Leu	Gly	Gln
				65					70					75
Leu	Ile	Ser	Lys	Tyr	Ser	Leu	Arg	Glu	Leu	His	Leu	Ser	Phe	Thr
				80					85					90
Gln	Gly	Phe	Trp	Arg	Thr	Arg	Tyr	Trp	Gly	Pro	Pro	Phe	Leu	Gln
				95					100					105
Ala	Pro	Ser	Gly	Ala	Glu	Leu	Trp	Val	Trp	Phe	Gln	Asp	Thr	Val
				110					115					120
Thr	Asp	Val	Asp	Lys	Ser	Trp	Lys	Glu	Leu	Ser	Asn	Val	Leu	Ser
				125					130					135
Gly	Ile	Phe	Cys	Ala	Ser	Leu	Asn	Phe	Ile	Asp	Ser	Thr	Asn	Thr
				140					145					150
Val	Thr	Pro	Thr	Ala	Ser	Phe	Lys	Pro	Leu	Gly	Leu	Ala	Asn	Asp
				155					160					165
Thr	Asp	His	Tyr	Phe	Leu	Arg	Tyr	Ala	Val	Leu	Pro	Arg	Glu	Val
				170					175					180
Val	Cys	Thr	Glu	Asn	Leu	Thr	Pro	Trp	Lys	Lys	Leu	Leu	Pro	Cys
				185					190					195
Ser	Ser	Lys	Ala	Gly	Leu	Ser	Val	Leu	Leu	Lys	Ala	Asp	Arg	Leu
				200					205					210
Phe	His	Thr	Ser	Tyr	His	Ser	Gln	Ala	Val	His	Ile	Arg	Pro	Val
				215					220					225
Cys	Arg	Asn	Ala	Arg	Cys	Thr	Ser	Ile	Ser	Trp	Glu	Leu	Arg	Gln
				230					235					240
Thr	Leu	Ser	Val	Val	Phe	Asp	Ala	Phe	Ile	Thr	Gly	Gln	Gly	Lys
				245					250					255
Lys	Asp	Trp	Ser	Leu	Phe	Arg	Met	Phe	Ser	Arg	Thr	Leu	Thr	Glu
				260					265					270
Pro	Cys	Pro	Leu	Ala	Ser	Glu	Ser	Arg	Val	Tyr	Val	Asp	Ile	Thr
				275					280					285
Thr	Tyr	Asn	Gln	Asp	Asn	Glu	Thr	Leu	Glu	Val	His	Pro	Pro	Pro
				290					295					300
Thr	Thr	Thr	Tyr	Gln	Asp	Val	Ile	Leu	Gly	Thr	Arg	Lys	Thr	Tyr
				305					310					315
Ala	Ile	Tyr	Asp	Leu	Leu	Asp	Thr	Ala	Met	Ile	Asn	Asn	Ser	Arg
				320					325					330
Asn	Leu	Asn	Ile	Gln	Leu	Lys	Trp	Lys	Arg	Pro	Pro	Glu	Asn	Glu
				335					340					345
Ala	Pro	Pro	Val	Pro	Phe	Leu	His	Ala	Gln	Arg	Tyr	Val	Ser	Gly

PF-0489-1 CON

Leu	Lys	Trp	Thr	Glu	Tyr	Thr	Pro	Asp	Pro	Asn	His	Gly	Phe	Tyr
				455					460					465
Val	Ser	Pro	Ser	Val	Leu	Ser	Ala	Leu	Val	Pro	Ser	Met	Val	Ala
				470					475					480
Ala	Lys	Pro	Val	Asp	Trp	Glu	Glu	Ser	Pro	Leu	Phe	Asn	Ser	Leu
				485					490					495
Phe	Pro	Val	Ser	Asp	Gly	Ser	Asn	Tyr	Phe	Val	Arg	Leu	Tyr	Thr
				500					505					510
Glu	Pro	Leu	Leu	Val	Asn	Leu	Pro	Thr	Pro	Asp	Phe	Ser	Met	Pro
				515					520					525
Tyr	Asn	Val	Ile	Cys	Leu	Thr	Cys	Thr	Val	Val	Ala	Val	Cys	Tyr
				530					535					540
Gly	Ser	Phe	Tyr	Asn	Leu	Leu	Thr	Arg	Thr	Phe	His	Ile	Glu	Glu
				545					550					555
Pro	Arg	Thr	Gly	Gly	Leu	Ala	Lys	Arg	Leu	Ala	Asn	Leu	Ile	Arg
				560					565					570
Arg	Ala	Arg	Gly	Val	Pro	Pro	Leu							
				575										

<210> 11
<211> 270
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2057213

<220>
<221> unsure
<222> 9, 16
<223> unknown or other

<400> 11

Met	Asp	Trp	Lys	Thr	Leu	Gln	Ala	Xaa	Met	Ser	Pro	Pro	Asn	Lys
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Xaa	Ser	Thr	Ala	Phe	Gly	Arg	Ile	Trp	Leu	Ser	Val	Val	Phe	Val
				20					25					30
Phe	Arg	Val	Leu	Val	Tyr	Val	Val	Ala	Ala	Glu	Arg	Val	Trp	Gly
				35					40					45
Asp	Glu	Gln	Lys	Asp	Phe	Asp	Cys	Asn	Thr	Lys	Gln	Pro	Gly	Cys
				50					55					60
Thr	Asn	Val	Cys	Tyr	Asp	Asn	Tyr	Phe	Pro	Ile	Ser	Asn	Ile	Arg
				65					70					75
Leu	Trp	Ala	Leu	Gln	Leu	Ile	Phe	Val	Thr	Cys	Pro	Ser	Leu	Leu
				80					85					90
Val	Ile	Leu	His	Val	Ala	Tyr	Arg	Glu	Glu	Arg	Glu	Arg	Arg	His
				95					100					105
Arg	Gln	Lys	His	Gly	Asp	Gln	Cys	Ala	Lys	Leu	Tyr	Asp	Asn	Ala
				110					115					120
Gly	Lys	Lys	His	Gly	Gly	Leu	Trp	Trp	Thr	Tyr	Leu	Phe	Ser	Leu
				125					130					135
Ile	Phe	Lys	Leu	Ile	Ile	Glu	Phe	Leu	Phe	Leu	Tyr	Leu	Leu	His
				140					145					150
Thr	Leu	Trp	His	Gly	Phe	Asn	Met	Pro	Arg	Leu	Val	Gln	Cys	Ala
				155					160					165
Asn	Met	Ala	Pro	Cys	Pro	Asn	Leu	Val	Asp	Cys	Tyr	Ile	Ala	Arg
				170					175					180
Pro	Thr	Glu	Lys	Lys	Ile	Phe	Thr	Tyr	Phe	Met	Val	Gly	Ala	Ser
				185					190					195
Ala	Val	Cys	Ile	Val	Leu	Thr	Ile	Cys	Glu	Leu	Cys	Tyr	Leu	Ile

PF-0489-1 CON

	200		205		210
Cys His Arg Val	Leu Arg Gly Leu His	Lys Asp Lys Pro Arg	Gly		
	215		220		225
Gly Cys Ser Pro	Ser Ser Ser Ala Ser	Arg Ala Ser Thr Cys	Arg		
	230		235		240
Cys His His Lys	Leu Val Glu Ala Gly	Glu Val Asp Pro Asp	Pro		
	245		250		255
Gly Asn Asn Lys	Leu Gln Ala Ser Ala	Pro Asn Leu Thr Pro	Ile		
	260		265		270

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<220>
<221> misc_feature
<223> Incyte ID No: 2073804

<400> 12

Met Ala Glu Asn Ser	Gly Arg Ala Gly Lys	Ser Ser Gly Ser Gly		
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Ala Gly Lys Gly Ala	Val Ser Ala Glu Gln	Val Ile Ala Gly Phe		
	20	25	30	
Asn Arg Leu Arg Gln	Glu Gln Arg Gly Leu	Ala Ser Lys Ala Ala		
	35	40	45	
Glu Leu Glu Met Glu	Leu Asn Glu His Ser	Leu Val Ile Asp Thr		
	50	55	60	
Leu Lys Glu Val Asp	Glu Thr Arg Lys Cys	Tyr Arg Met Val Gly		
	65	70	75	
Gly Val Leu Val Glu	Arg Thr Val Lys Glu	Val Leu Pro Ala Leu		
	80	85	90	
Glu Asn Asn Lys Glu	Gln Ile Gln Lys Ile	Ile Glu Thr Leu Thr		
	95	100	105	
Gln Gln Leu Gln Ala	Lys Gly Lys Glu Leu	Asn Glu Phe Arg Glu		
	110	115	120	
Lys His Asn Ile Arg	Leu Met Gly Glu Asp	Glu Lys Pro Ala Ala		
	125	130	135	
Lys Glu Asn Ser Glu	Gly Ala Gly Ala Lys	Ala Ser Ser Ala Gly		
	140	145	150	
Val Leu Val Ser				

<210> 13
<211> 263
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No.: 2175401

<400> 13

Met Val Lys Ile Ala	Phe Asn Thr Pro Thr	Ala Val Gln Lys Glu		
1	5	10	15	
Glu Ala Arg Gln Asp	Val Glu Ala Leu Leu	Ser Arg Thr Val Arg		
	20	25	30	
Thr Gln Ile Leu Thr	Gly Lys Glu Leu Arg	Val Ala Thr Gln Glu		
	35	40	45	
Lys Glu Gly Ser Ser	Gly Arg Cys Met Leu	Thr Leu Leu Gly Leu		

[illegible]

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<210> 14
<211> 239
<212> PRT
<213> Homo sapiens

<220>
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<223> Incyte ID No: 2741580
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Met	Ala	Arg	Gly	Arg	Leu	Cys	Cys	Leu	Lys	Tyr	Met	Met	Phe	Leu	
1				5					10					15	
Phe	Asn	Leu	Ile	Phe	Trp	Leu	Cys	Gly	Cys	Gly	Leu	Leu	Gly	Val	
				20					25					30	
Gly	Ile	Trp	Leu	Ser	Val	Ser	Gln	Gly	Asn	Phe	Ala	Thr	Phe	Ser	
				35					40					45	
Pro	Ser	Phe	Pro	Ser	Leu	Phe	Ala	Ala	Asn	Leu	Val	Ile	Ala	Ile	
				50					55					60	
Gly	Thr	Ile	Val	Met	Val	Thr	Gly	Phe	Leu	Gly	Cys	Leu	Gly	Ala	
				65					70					75	
Ile	Lys	Glu	Asn	Lys	Cys	Leu	Leu	Leu	Ser	Phe	Phe	Ile	Val	Leu	
				80					85					90	
Leu	Val	Ile	Leu	Leu	Ala	Glu	Leu	Ile	Leu	Leu	Ile	Leu	Phe	Phe	
				95					100					105	
Val	Tyr	Met	Asp	Lys	Val	Asn	Glu	Asn	Ala	Lys	Lys	Asp	Leu	Lys	
				110					115					120	
Glu	Gly	Leu	Leu	Leu	Tyr	His	Thr	Glu	Asn	Asn	Val	Gly	Leu	Lys	
				125					130					135	
Asn	Ala	Trp	Asn	Ile	Ile	Gln	Ala	Glu	Met	Arg	Cys	Cys	Gly	Val	
				140					145					150	
Thr	Asp	Tyr	Thr	Asp	Trp	Tyr	Pro	Val	Leu	Gly	Glu	Asn	Thr	Val	

PF-0489-1 CON

Pro	Asp	Arg	Cys	155	Met	Glu	Asn	Ser	160	Gln	Gly	Cys	Gly	Arg	Asn	165
Ala	Thr	Thr	Pro	170	Leu	Trp	Arg	Thr	175	Cys	Tyr	Glu	Lys	Val	Lys	180
Met	Trp	Phe	Asp	185	Gly	Asn	Lys	His	190	Leu	Gly	Ala	Val	Gly	Met	195
Cys	Ile	Leu	Ile	200	Met	Gln	Ile	Leu	205	Met	Ala	Phe	Ser	Met	Thr	210
Leu	Phe	Gln	His	215	Ile	His	Arg	Thr	220	Lys	Lys	Tyr	Asp	Ala		225
				230					235							

<210> 15
<211> 245
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2779610

Met	Ala	Ser	Pro	Ser	Arg	Arg	Leu	Gln	Thr	Lys	Pro	Val	Ile	Thr		
1				5					10					15		
Cys	Phe	Lys	Ser	Val	Leu	Leu	Ile	Tyr	Thr	Phe	Ile	Phe	Trp	Ile		
				20					25					30		
Thr	Gly	Val	Ile	Leu	Leu	Ala	Val	Gly	Ile	Trp	Gly	Lys	Val	Ser		
				35					40					45		
Leu	Glu	Asn	Tyr	Phe	Ser	Leu	Leu	Asn	Glu	Lys	Ala	Thr	Asn	Val		
				50					55					60		
Pro	Phe	Val	Leu	Ile	Ala	Thr	Gly	Thr	Val	Ile	Ile	Leu	Leu	Gly		
				65					70					75		
Thr	Phe	Gly	Cys	Phe	Ala	Thr	Cys	Arg	Ala	Ser	Ala	Trp	Met	Leu		
				80					85					90		
Lys	Leu	Tyr	Ala	Met	Phe	Leu	Thr	Leu	Val	Phe	Leu	Val	Glu	Leu		
				95					100					105		
Val	Ala	Ala	Ile	Val	Gly	Phe	Val	Phe	Arg	His	Glu	Ile	Lys	Asn		
				110					115					120		
Ser	Phe	Lys	Asn	Asn	Tyr	Glu	Lys	Ala	Leu	Lys	Gln	Tyr	Asn	Ser		
				125					130					135		
Thr	Gly	Asp	Tyr	Arg	Ser	His	Ala	Val	Asp	Lys	Ile	Gln	Asn	Thr		
				140					145					150		
Leu	His	Cys	Cys	Gly	Val	Thr	Asp	Tyr	Arg	Asp	Trp	Thr	Asp	Thr		
				155					160					165		
Asn	Tyr	Tyr	Ser	Glu	Lys	Gly	Phe	Pro	Lys	Ser	Cys	Cys	Lys	Leu		
				170					175					180		
Glu	Asp	Cys	Thr	Pro	Gln	Arg	Asp	Ala	Asp	Lys	Val	Asn	Asn	Glu		
				185					190					195		
Gly	Cys	Phe	Ile	Lys	Val	Met	Thr	Ile	Ile	Glu	Ser	Glu	Met	Gly		
				200					205					210		
Val	Val	Ala	Gly	Ile	Ser	Phe	Gly	Val	Ala	Cys	Phe	Gln	Leu	Ile		
				215					220					225		
Gly	Ile	Phe	Leu	Ala	Tyr	Cys	Leu	Ser	Arg	Ala	Ile	Thr	Asn	Asn		
				230					235					240		
Gln	Tyr	Glu	Ile	Val												
				245												

<210> 16
<211> 275
<212> PRT
<213> Homo sapiens

PF-0489-1 CON

<220>

<221> misc_feature

<223> Incyte ID No: 2879792

<400> 16

Met Gly Asn Phe Arg Gly His Ala Leu Pro Gly Thr Phe Phe Phe
1 5 10 15
Ile Ile Gly Leu Trp Trp Cys Thr Lys Ser Ile Leu Lys Tyr Ile
20 25 30
Cys Lys Lys Gln Lys Arg Thr Cys Tyr Leu Gly Ser Lys Thr Leu
35 40 45
Phe Tyr Arg Leu Glu Ile Leu Glu Gly Ile Thr Ile Val Gly Met
50 55 60
Ala Leu Thr Gly Met Ala Gly Glu Gln Phe Ile Pro Gly Gly Pro
65 70 75
His Leu Met Leu Tyr Asp Tyr Lys Gln Gly His Trp Asn Gln Leu
80 85 90
Leu Gly Trp His His Phe Thr Met Tyr Phe Phe Phe Gly Leu Leu
95 100 105
Gly Val Ala Asp Ile Leu Cys Phe Thr Ile Ser Ser Leu Pro Val
110 115 120
Ser Leu Thr Lys Leu Met Leu Ser Asn Ala Leu Phe Val Glu Ala
125 130 135
Phe Ile Phe Tyr Asn His Thr His Gly Arg Glu Met Leu Asp Ile
140 145 150
Phe Val His Gln Leu Leu Val Leu Val Val Phe Leu Thr Gly Leu
155 160 165
Val Ala Phe Leu Glu Phe Leu Val Arg Asn Asn Val Leu Leu Glu
170 175 180
Leu Leu Arg Ser Ser Leu Ile Leu Leu Gln Gly Ser Trp Phe Phe
185 190 195
Gln Ile Gly Phe Val Leu Tyr Pro Pro Ser Gly Gly Pro Ala Trp
200 205 210
Asp Leu Met Asp His Glu Asn Ile Leu Phe Leu Thr Ile Cys Phe
215 220 225
Cys Trp His Tyr Ala Val Thr Ile Val Ile Val Gly Met Asn Tyr
230 235 240
Ala Phe Ile Thr Trp Leu Val Lys Ser Arg Leu Lys Arg Leu Cys
245 250 255
Ser Ser Glu Val Gly Leu Leu Lys Asn Ala Glu Arg Glu Gln Glu
260 265 270
Ser Glu Glu Glu Met
275

<210> 17

<211> 221

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3231062

<400> 17

Met Gly Arg Phe Arg Gly Gly Leu Arg Cys Ile Lys Tyr Leu Leu
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Leu Gly Phe Asn Leu Leu Phe Trp Leu Ala Gly Ser Ala Val Ile
20 25 30
Ala Phe Gly Leu Trp Phe Arg Phe Gly Gly Ala Ile Lys Glu Leu
35 40 45
Ser Ser Glu Asp Lys Ser Pro Glu Tyr Phe Tyr Val Gly Leu Tyr

Val	Leu	Val	Gly	Ala	Gly	Ala	Leu	Met	Met	Ala	Val	Gly	Phe	Phe	50	55	60
				65					70						75		
Gly	Cys	Cys	Gly	Ala	Met	Arg	Glu	Ser	Gln	Cys	Val	Leu	Gly	Ser	80	85	90
				95					100						105		
Phe	Phe	Thr	Cys	Leu	Leu	Val	Ile	Phe	Ala	Ala	Glu	Val	Thr	Thr	110	115	120
				125					130						135		
Gly	Val	Phe	Ala	Phe	Ile	Gly	Lys	Gly	Val	Ala	Ile	Arg	His	Val	140	145	150
				155					160						165		
Gln	Thr	Met	Tyr	Glu	Glu	Ala	Tyr	Asn	Asp	Tyr	Leu	Lys	Asp	Arg	170	175	180
				185					190						195		
Gly	Lys	Gly	Asn	Gly	Thr	Leu	Ile	Thr	Phe	His	Ser	Thr	Phe	Gln	200	205	210
				215					220								
Cys	Cys	Gly	Lys	Glu	Ser	Ser	Glu	Gln	Val	Gln	Pro	Thr	Cys	Pro			
				225					230								
Lys	Glu	Leu	Leu	Gly	His	Lys	Asn	Cys	Ile	Asp	Glu	Ile	Glu	Thr			
				235					240								
Ile	Ile	Ser	Val	Lys	Leu	Gln	Leu	Ile	Gly	Ile	Val	Gly	Ile	Gly			
				245					250								
Ile	Ala	Gly	Leu	Thr	Ile	Phe	Gly	Met	Ile	Phe	Ser	Met	Val	Leu			
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PF-0489-1 CON

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<211> 1416
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<213> Homo sapiens

<220>
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<223> Incyte ID No: 1381884

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<213> Homo sapiens

<220>
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<223> Incyte ID No: 1427590

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<210> 21
<211> 2261
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<223> Incyte ID No: 1457779

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PF-0489-1 CON

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<211> 1034
<212> DNA
<213> Homo sapiens

<220>
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<211> 2411
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 1487802

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 <213> Homo sapiens

<220>
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 <223> Incyte ID No: 1718830

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<211> 3111
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
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23

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<211> 4117

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1794154

<400> 26

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<211> 2173

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2027624

<220>

<221> unsure

<222> 2160

<223> a, t, c, g, or other

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<212> DNA
<213> Homo sapiens

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<223> Incyte ID No: 2057213

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<220>
<221> unsure
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<223> a, t, c, g, or other

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PF-0489-1 CON

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<211> 653
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2073804

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<211> 1632
<212> DNA
<213> Homo sapiens

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PF-0489-1 CON

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<211> 1175
<212> DNA
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<223> Incyte ID No: 2741580

<220>
<221> unsure
<222> 959
<223> a, t, c, g, or other

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<210> 32
<211> 2358
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2779610

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PF-0489-1 CON

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